UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,137	06/16/2006	Arnaud Bailleul	4590-535	1292
	7590 04/28/201 T <b>MAN HAM &amp; BERN</b>	EXAMINER		
1700 DIAGONAL ROAD, SUITE 300			SMITH, CHENECA	
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			2192	
			MAIL DATE	DELIVERY MODE
			04/28/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, PROM THE MAILING DATE OF THIS COMMUNICATION.  - Examinate in many be available under the provision of 30° FR1 1-130°, in the event, however, may a nepty be simely filled.  - If NO period for right is specified above, the maximum statutory principl will apply and will expect SIX (8) MONTHS from the marging called of this communication.  - Fallists to right within the sort or extended period for right is specified above, the maximum statutory principl will be stated to the communication of the maximum state of the communication.  - Fallists to right within the sort or extended period for right will be stated to the communication.  - Fallists to right with the sort of extended period for right will be stated to the communication.  - Fallists to right with the sort of extended period for right will be stated to the communication.  - Fallists to right with the sort of the maximum state of this communication.  - Fallists to right with the state of the communication, and the maximum state of the communication.  - Fallists to right with the state of this communication, and the maximum state of the communication.  - Fallists to right with the state of the communication.  - Fallists to right with the state of the communication is non-final.  - Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  - Disposition of Claims  - All Claim(s)		Application No.	Applicant(s)				
CHENECA SMITH  2192  - The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - If NO period for regly is appointed above, the managementation.  - If NO period for regly is appointed above, the managementation.  - If NO period for regly is appointed above, the managementation.  - If NO period for regly is appointed above, the managementation.  - If NO period for regly is appointed above, the managementation.  - If NO period for regly is appointed above, the managementation and the period and the period and the properties of the communication, ever if above the realing date of this communication.  - If NO period for regly is appointed above, the managementation and the period and the per	Office Action Comments	10/583,137	BAILLEUL ET AL.				
- The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Repty  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Falserboard of their may be availation and the provisions of ZFC 1.136b, in no rount, however, may reply the interior field in the communication of the provisions of ZFC 1.136b, in no rount, however, may reply the interior field in the communication.  Falser for the provision of the provisions of ZFC 1.136b, into rount, however, may reply the interior accommunication.  Falser for provision is periodic above, the macroun statistics precised val apply, and will expert SN (8) MONTHS from the mailing date of this communication.  Falser for provision is periodic above, the macroun statistics precised value applies to the application is communication.  Falser for provision of the communication of the statistic provision of this communication, even if stretch find the communication.  Figure 1 This action is FINAL.  2b) This action is FINAL.  2b) This action is final.  2b) This action is final.  2c) This action is condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1.2 slare pending in the application.  4a) Of the above claim(s) is/are allowed.  6b) Claim(s) 1.2 slare rejected.  7b) Claim(s) 1.2 slare rejected.  7c) Claim(s) 1.2 slare rejected.  7c) Claim(s) 1.2 slare rejected.  7d) The drawing(s) filed on 16 June 2006 is/are: a) accepted or b) objected to by the Examiner.  Application Papers  9b) The specification is objected to by the Examiner.  10b) The drawing(s) filed on 16 June 2006 is/are: a) accepted in the drawing(s) is objected to by the Examiner.  10b)	Oπice Action Summary	Examiner	Art Unit				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - and six (s) MICHINES from the mailing date of this communication if the period to reply is specified above, the missimum attackop particul large, and we depice the mailing date of this communication if the period to reply is specified above, the missimum attackop particul large, and we depice the mailing date of this communication if the period to reply is specified to reply in the period to reply with the set or extended period for eight with the mailing date of this communication, even if timely filed, may reduce any seared parent term adjustment. See 37 GPR 1.704(b).  Status  1) □ Responsive to communication(s) filed on 16 June 2006. 2a) □ This action is FINAL. 2b) □ This action is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is is/are withdrawn from consideration. 5□ Claim(s) is/are allowed.  6) □ Claim(s) is/are allowed.  6) □ Claim(s) is/are objected to. 8) □ Claim(s) is/are objected to. 8) □ Claim(s) is/are objected to. 8) □ Claim(s) is/are objected to by the Examiner.  10) □ The specification is objected to by the Examiner.  10) □ The oath or declaration is objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) to held in above, and seeds in including the correction is required if the drawing(s) to objected to See 37 CFR 1.121(d).  11□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1.□ □ Certified copies of the		CHENECA SMITH	2192				
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  E-behanisor of the may be available under the provisions of 3° CFR 1.13(b). Inno event, however, may a reply be timely liked after SIX (b) MONTHS from the mailing date of this communication. Provided the state of the communication of t	The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
1)  Responsive to communication(s) filed on 16 June 2006.  2a	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any						
2a)  This action is FINAL. 2b)  This action is non-final.  3   Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4   Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s)  is/are withdrawn from consideration. 5   Claim(s)  is/are allowed. 6   Claim(s)  is/are allowed. 6   Claim(s)  is/are objected to. 8   Claim(s)  is/are objected to. 8   Claim(s)  is/are objected to by the Examiner. 10   The specification is objected to by the Examiner. 10   The drawing(s) filed on 16 June 2006 is/are: a)  accepted or b)  objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in aboyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11   The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12   Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)  All b)  Some * c) None of: 1.   Certified copies of the priority documents have been received. 2   Certified copies of the priority documents have been received in Application No. 3   Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.	Status						
2a)  This action is FINAL.  2b)  This action is non-final.  3  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4  Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5  Claim(s) is/are allowed. 6  Claim(s) is/are objected to. 8  Claim(s) is/are objected to. 8  Claim(s) are subject to restriction and/or election requirement.  Application Papers  9  The specification is objected to by the Examiner. 10  The drawing(s) filed on 16 June 2006 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1  Certified copies of the priority documents have been received. 2  Certified copies of the priority documents have been received in Application No 3  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.	1) Responsive to communication(s) filed on 16.1	ine 2006					
3	·= ·						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)	<u> </u>	, <b>—</b>					
4)	<i>,</i>						
4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) is/are allowed. 6) ☒ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) □ The specification is objected to by the Examiner.  10) ☒ The drawing(s) filed on 16 June 2006 is/are: a) ☒ accepted or b) □ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☒ All b) □ Some * c) □ None of:  1. ☒ Certified copies of the priority documents have been received.  2. □ Certified copies of the priority documents have been received in Application No  3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☒ Notice of References Cited (PTO-892)  □ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☒ Information Disclosure Statement(s) (PTO:SB/08)  5) ☐ Notice of Informal Patent Application	Disposition of Claims						
4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) is/are allowed.  6) ☒ Claim(s) is/are rejected.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) □ The specification is objected to by the Examiner.  10) ☒ The drawing(s) filed on 16 June 2006 is/are: a) ☒ accepted or b) □ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☒ All b) □ Some * c) □ None of:  1. ☒ Certified copies of the priority documents have been received.  2. □ Certified copies of the priority documents have been received in Application No  3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☒ Notice of References Cited (PTO-892)  □ Notice of References Cited (PTO-892)  □ Notice of Tenfsperson's Patent Drawing Review (PTO-948)  3) ☒ Information Disclosure Statement(s) (PTO-S8108)  5) ☐ Notice of Informal Patent Application	4) Claim(s) 1-8 is/are pending in the application.						
5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 16	,—						
6) ☐ Claim(s) 1-8 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 16 June 2006 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☐ Some * c) ☐ None of:  1. ☑ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s) 1) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO/SB/08) 5) ☐ Notice of Informal Patent Application	_						
7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) ☐ The specification is objected to by the Examiner.  10) ☒ The drawing(s) filed on 16 June 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☒ All b) ☐ Some * c) ☐ None of:  1. ☒ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  5) ☐ Notice of Informal Patent Application	·						
Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on 16 June 2006 is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/S8/08)	· · · · · · · · · · · · · · · · · · ·						
Application Papers  9) ☐ The specification is objected to by the Examiner.  10) ☒ The drawing(s) filled on 16 June 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☒ All b) ☐ Some * c) ☐ None of:  1. ☒ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☒ Notice of References Cited (PTO-892)  20 ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  5) ☐ Notice of Informal Patent Application	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·					
10) ☐ The drawing(s) filed on 16 June 2006 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  5) ☐ Notice of Informal Patent Application	Application Papers						
10) ☐ The drawing(s) filed on 16 June 2006 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  5) ☐ Notice of Informal Patent Application	···	r					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)  5) Notice of Informal Patent Application							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some column Some column Some Some Some Some Some Some Some Some							
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  1 ☐ Notice of Informal Patent Application							
Priority under 35 U.S.C. § 119  12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)  All b)  Some * c) None of:  1.  Certified copies of the priority documents have been received.  2.  Certified copies of the priority documents have been received in Application No  3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1)  Notice of References Cited (PTO-892)  2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  3)  Information Disclosure Statement(s) (PTO/SB/08)							
12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)  All b)  Some * c) None of:  1.  Certified copies of the priority documents have been received.  2.  Certified copies of the priority documents have been received in Application No  3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1)  Notice of References Cited (PTO-892)  2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  3)  Notice of Informal Patent Application							
a)							
1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☐ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  1 ☐ Notice of Informal Patent Application							
2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☒ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  1 ☐ Notice of Informal Patent Application	·—						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)  4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Paper No(s)/Mail Date. Statement(s) (PTO/SB/08)							
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)  * See the attached detailed Office action for a list of the certified copies not received.  4) Interview Summary (PTO-413) Paper No(s)/Mail Date Paper No(s)/Mail Date  Notice of Informal Patent Application	<u> </u>						
* See the attached detailed Office action for a list of the certified copies not received.  *Attachment(s)  1) Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  *Attachment(s)  4) Interview Summary (PTO-413) Paper No(s)/Mail Date.  Paper No(s)/Mail Date.  5) Notice of Informal Patent Application							
Attachment(s)  1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)  4) Interview Summary (PTO-413) Paper No(s)/Mail Date  5) Notice of Informal Patent Application							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application	233 the attached actained chief action for a net of the defining copies not received.						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application	Attachment(s)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  Notice of Informal Patent Application		4) Interview Summary	(PTO-413)				
5) A minimum biosioon o diatement(s) (1. 16.52.65)	2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
	atent Application						

# **DETAILED ACTION**

This action is in response to the application filed on June 16, 2006.

Claims 1-8 have been examined.

### **Priority**

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 4, 7 and 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 4 recites the limitation "the report file" in line 2. There is insufficient antecedent basis for this limitation in the claim

Claims 7 and 8 both recite the limitation "the report file" in line 1. There is insufficient antecedent basis for this limitation in the claim.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Application/Control Number: 10/583,137 Page 3

Art Unit: 2192

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Campbell et al (Automatically Detecting and Visualizing Errors in UML Diagrams).

As to claim 1, Campbell teaches a method for verifying rules on UML models (see Abstract - automated structural and behavioral analyses applicable to UML diagrams; in addition to intra and inter-diagram consistency checks, we discuss how simulation and model checking can be used in tandem for behavioral analysis of the *UML diagrams*), wherein after having established a model, the data of the model are structured so as to render them utilizable by the "Model In Action" tool MIA (see Fig.2 and associated text, e.g. page 266 1st col. 1st paragraph - we developed a modeling and visualization framework to support a number of tasks necessary to model and analyze UML diagrams; these tasks have been automated in a tool called Minerva and include the following capabilities: graphical construction of syntactically correct UML diagrams; graph oriented consistency checks within UML diagrams), this tool is made to produce a verification file (i.e. trace data output from SPIN model checker - see Fig.2 and associated text, e.g. page 267 1st col. 1st paragraph - if a claim is violated, the model checking produces a counterexample, which is a sequence of execution steps that demonstrates how the claim was violated) and a verification report readable by a user is produced on the basis of this file (see page 269 2<sup>nd</sup> col. 3<sup>rd</sup> paragraph – by designing Minerva to automatically process trace data output from SPIN simulation executions and counterexamples; Minerva can also reformat the analysis results into a human-readable report for inclusion in documentation as a supplement to or annotation for graphical diagrams).

As to claim 2, Campbell teaches the method as claimed in claim 1, wherein the verified rules are one at least of the rules relating to the consistency of the model (see page 265 1<sup>st</sup> col. 2<sup>nd</sup> paragraph – *using SPIN's model checking facility, we were able to check requirements based properties for the entire collection of UML diagrams for a given system*).

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Campbell et al (Automatically Detecting and Visualizing Errors in UML Diagrams) in view of Kovse et al (Generic XMI-Based UML Model Transformations).

As to claim 3, Campbell teaches the method as claimed in claim 1, but does not specifically teach wherein the file of the model, established in the UML format, is exported in the XMI format to the MIA tool. In an analogous art, however, Kovse is cited to teach wherein the file of the model, established in the UML format, is exported in the XMI format to the MIA tool (see page 192 2<sup>nd</sup> paragraph – a UML model mi is given; a human or software agent wants to transform mi, i.e. add, remove, or modify model elements to obtain a model i+1 and page 193 1st paragraph - the agent produces an XMI document describing the transformation that has to be applied to obtain the model

Art Unit: 2192

*mi*+1). It would have been obvious to one having ordinary skill in the art at the time of the invention to have combined the teachings of Campbell and Kovse in order to provide users with an improved technique that would promote model reuse and also speed up the modeling process, as disclosed by Kovse (see Conclusion page 196).

As to claim 6, Campbell teaches the method as claimed in claim 2, but does not specifically teach wherein the file of the model, established in the UML format, is exported in the XMI format to the MIA tool. In an analogous art, however, Kovse is cited to teach wherein the file of the model, established in the UML format, is exported in the XMI format to the MIA tool (see page 192 2<sup>nd</sup> paragraph – a UML model mi is given; a human or software agent wants to transform mi, i.e. add, remove, or modify model elements to obtain a model i+1 and page 193 1st paragraph - the agent produces an XMI document describing the transformation that has to be applied to obtain the model mi+1). It would have been obvious to one having ordinary skill in the art at the time of the invention to have combined the teachings of Campbell and Kovse in order to provide users with an improved technique that would promote model reuse and also speed up the modeling process, as disclosed by Kovse (see Conclusion page 196).

Claims 4, 5 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Campbell et al (Automatically Detecting and Visualizing Errors in UML Diagrams) in view of Berenbach et al (US Patent 7,480,893 B2).

As to claim 4, Campbell teaches the method as claimed in claim 1, but does not specifically teach wherein the report file produced by the MIA tool is in the XML format.

Page 6

In an analogous art, however, Berenbach is cited to teach wherein the report file produced by the MIA tool (*i.e. modeling application*, see Fig.3, 301 and associated text) is in the XML format (see col.7 lines 36-38 and line 45-46). It would have been obvious to one having ordinary skill in the art at the time of the invention to have combined the teachings of Campbell and Berenbach in order to provide an improved method of model checking that would reduce the overall design, development and testing costs, as disclosed by Berenbach (see col.1 lines 58-60).

As to claim 5, Berenbach further teaches wherein the file in the XML format produced by the tool is converted into the XSLT format so as to be transformed into a document file of another appropriate format (see col.7 lines 36-38 and line 45-46).

As to claim 7, Campbell teaches the method as claimed in claim 2, but does not specifically teach wherein the report file produced by the MIA tool is in the XML format. In an analogous art, however, Berenbach is cited to teach wherein the report file produced by the MIA tool (*i.e. modeling application*, see Fig.3, 301 and associated text) is in the XML format (see col.7 lines 36-38 and line 45-46). It would have been obvious to one having ordinary skill in the art at the time of the invention to have combined the teachings of Campbell and Berenbach in order to provide an improved method of model checking that would reduce the overall design, development and testing costs, as disclosed by Berenbach (see col.1 lines 58-60).

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Campbell et al (Automatically Detecting and Visualizing Errors in UML Diagrams) in view of

Kovse et al (Generic XMI-Based UML Model Transformations), as applied to claim 3 above, and further in view of Berenbach et al (US Patent 7,480,893 B2).

As to claim 8, Campbell in view of Kovse teaches the limitations of claim 3, but does not specifically teach wherein the file in the XML format produced by the tool is converted into the XSLT format so as to be transformed into a document file of another appropriate format. In an analogous art, however, Berenbach is cited to teach wherein the file in the XML format produced by the tool is converted into the XSLT format so as to be transformed into a document file of another appropriate format (see col.7 lines 36-38 and line 45-46). It would have been obvious to one having ordinary skill in the art at the time of the invention to have combined the teachings of Campbell and Kovse with those of Berenbach in order to provide an improved method of model checking that would reduce the overall design, development and testing costs, as disclosed by Berenbach (see col.1 lines 58-60).

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHENECA SMITH whose telephone number is (571)270-1651. The examiner can normally be reached on Monday-Friday 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Dam can be reached on (571)272-3695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/583,137 Page 8

Art Unit: 2192

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CHENECA SMITH/ Examiner, Art Unit 2192 4/19/2010 /Tuan Q. Dam/ Supervisory Patent Examiner, Art Unit 2192